

Title (en)

Optical transmitter, optical transmission method, and wavelength-selective variable delayer

Title (de)

Optischer Sender, optisches Sendeverfahren und wellenlängenselektiver variabler Verzögerer

Title (fr)

Émetteur optique, procédé de transmission optique et temporisateur variable sélectif en longueurs d'ondes

Publication

EP 1944894 A3 20151028 (EN)

Application

EP 07023032 A 20071128

Priority

JP 2006356187 A 20061228

Abstract (en)

[origin: EP1944894A2] An optical transmitter is provided for transmitting a wavelength multiplexed signal comprising an intensity modulation optical signal and a phase modulation optical signal through a transmission line. The optical transmitter includes a bit time difference given signal generator (11, 12) for generating at least two optical signals having a bit time difference therebetween, from the wavelength multiplexed signal. The optical transmitter further includes a wavelength multiplexed signal output unit (13) to which at least two optical signals are input from the bit time difference given signal generator (11, 12), and which generates and outputs a wavelength multiplexed signal in which the bit time difference was given between the phase modulation optical signal and the phase modulation optical signal.

IPC 1-7

H04B 10/155; H04B 10/18

IPC 8 full level

H04B 10/2507 (2013.01); **H04J 14/02** (2006.01); **H04B 10/032** (2013.01); **H04B 10/077** (2013.01); **H04B 10/25** (2013.01); **H04B 10/275** (2013.01); **H04B 10/29** (2013.01); **H04B 10/299** (2013.01); **H04B 10/516** (2013.01); **H04B 10/524** (2013.01); **H04B 10/54** (2013.01); **H04B 10/556** (2013.01); **H04B 10/58** (2013.01); **H04B 10/61** (2013.01); **H04J 14/00** (2006.01)

CPC (source: EP US)

H04B 10/2557 (2013.01 - EP US); **H04B 10/516** (2013.01 - EP US); **H04J 14/0204** (2013.01 - EP US); **H04J 14/0212** (2013.01 - EP US); **H04J 14/0217** (2013.01 - EP US); **H04J 14/0219** (2013.01 - EP US); **H04J 14/0227** (2013.01 - EP US); **H04J 14/0246** (2013.01 - EP US); **H04J 14/025** (2013.01 - EP US); **H04J 14/0283** (2013.01 - EP US); **H04J 14/0286** (2013.01 - EP US); **H04J 14/022** (2013.01 - EP US); **H04J 14/0221** (2013.01 - EP US)

Citation (search report)

- [Y] EP 1624595 A1 20060208 - TYCO TELECOMM US INC [US]
- [Y] JP 2003060574 A 20030228 - HITACHI LTD
- [A] EP 1087552 A2 20010328 - FUJITSU LTD [JP]
- [A] CHARLET G ET AL: "Nonlinear Interactions Between 10Gb/s NRZ Channels and 40Gb/s Channels with RZ-DQPSK or PSBT Format, over Low-Dispersion Fiber", PROCEEDINGS / ECOC 2006, 32ND EUROPEAN CONFERENCE ON OPTICAL COMMUNICATION : 24 - 28 SEPTEMBER 2006, CANNES, FRANCE, SEE, PARIS, FRANCE, 24 September 2006 (2006-09-24), pages 1 - 2, XP031436977, ISBN: 978-2-912328-39-7

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

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DOCDB simple family (application)

EP 07023032 A 20071128; JP 2006356187 A 20061228; US 93964607 A 20071114